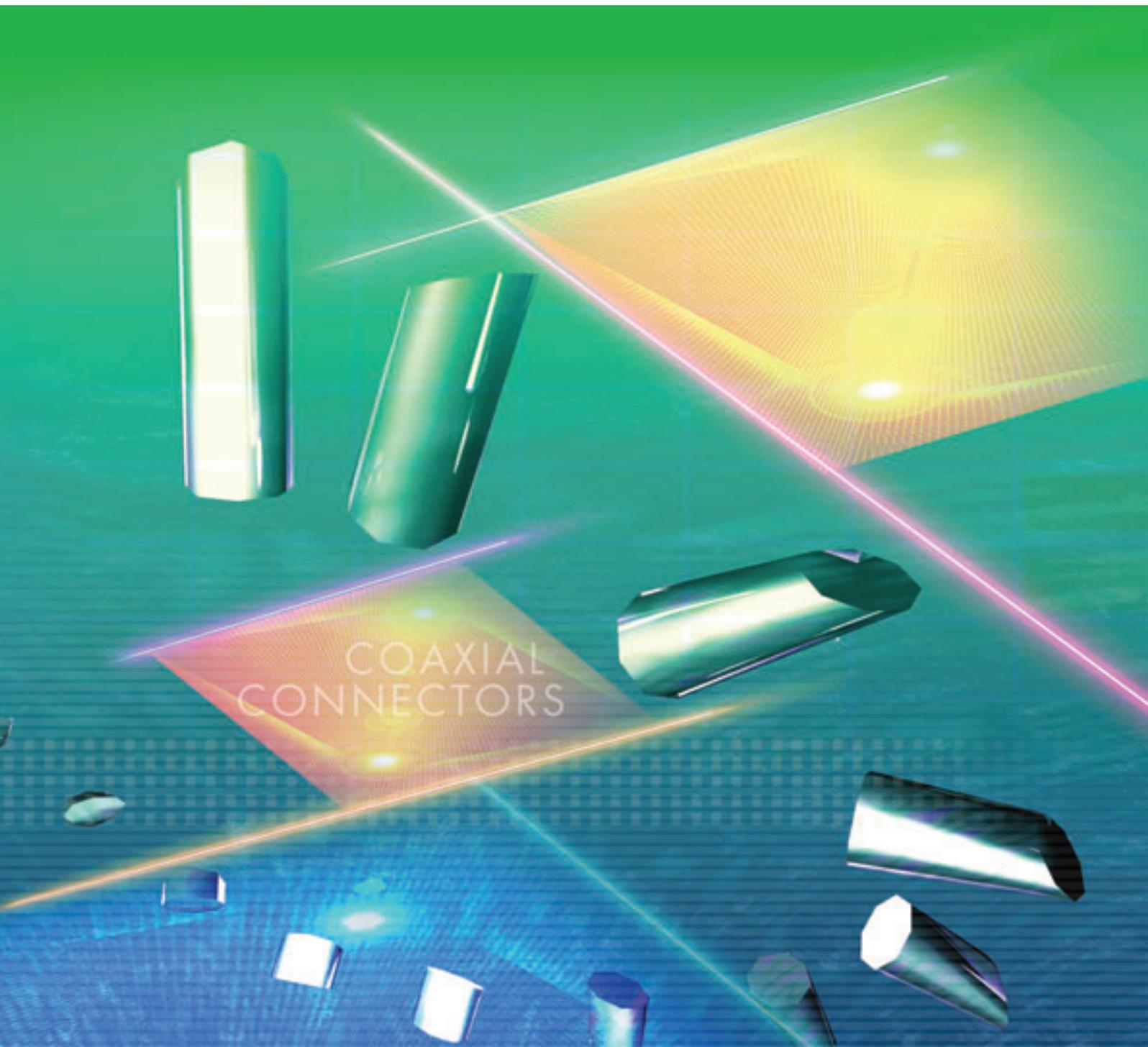


RoHS Compliant

COAXIAL CONNECTORS

2008

CAT.NO.COAX-007A-E.FEB.2008



COAXIAL
CONNECTORS

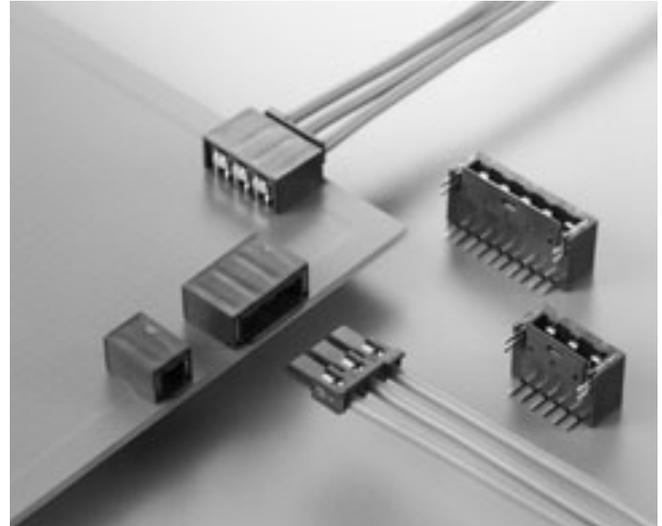
Japan Aviation Electronics Industry, Ltd.

- FREQUENCY RANGE TO 300MHz
- SIMPLIFIED COAXIAL, MULTIPLETYPE

KD10/KD20 Series

KD10/KD20 series are different from conventional single position independent coaxial connectors. The multiple simplified coaxial connectors of these series have several positions in a single housing. All cables can be mated or unmated en masse on the board. Easy to operate. Applicable to a middle/low band high frequency from DC to 300 MHz. Characteristic impedance : 50 or 75 ohm.

- Number of positions : 1,3,5,8
- Push-on feature easy to mate and unmate.
 - Simple locking mechanism with polarizing key.
- Low profile : 6.1 mm high on board
- Receptacle with kinked holdowns.
 - It facilitates temporary insertion/fitting for soldering.
- The central contact of KD20 types are plated with thick gold of 0.3 μ m or more. A higher degree of reliability with two electric contact points. Plug with heat resistant cable.
- Applications :
 - 50 Ω Type / Digital Information Equipment, Communications Equipment, Measuring Instruments, Factory Automation Equipment
 - 75 Ω Type / Image Equipment, Broadcasting Equipment, Multimedia Equipment



SPECIFICATIONS

| | |
|--------------------------|--|
| Characteristic Impedance | 50 Ω & 75 Ω |
| Frequency Range | DC to 300MHz |
| D. W. Voltage | AC250Vr.m.s. (1minute) |
| Insulation Resistance | 100 megohms min. (DC250V) |
| Contact Resistance | Center Contacts : 80 milliohms max. Outer Contacts : 30 milliohms max. |
| V. S. W. R. | 1.3 max. (DC to 300MHz) |
| Applicable Cables | 50 Ω : 0.8D-IEV(LF) For KD20/CO-6F-SB-CX50 75 Ω : 0.8CV-E41447(LF) |

MATERIALS/FINISHES

| Description | Materials/Finishes |
|-------------|---|
| Contacts | Copper Alloy/Gold Plated (Gold Plated Thickness : KD10 \cdots 0.1 μ m min.KD20 \cdots 0.3 μ m min.) |
| Insulator | Glass-filled 6-6Nylon |
| Hold-down | Copper Alloy/Tin Plated |

Types and Combinations

| Receptacle | Plug |
|---|--|
| <ul style="list-style-type: none"> ● Through-hole Solder Right-angle <p>P/N : KD*-RRP*-F-0</p> | <ul style="list-style-type: none"> ● Straight Cable Assembly <p>P/N : KD*-C**-PL*-8*V-*</p> |
|  |  |

For the cable application type, harnessed connectors which satisfy your specification are supplied. We can also provide connectors and cables other than those listed in this catalog. For details, please consult us.

KD10/KD20 Series

RECEPTACLE

Through-hole Solder Type

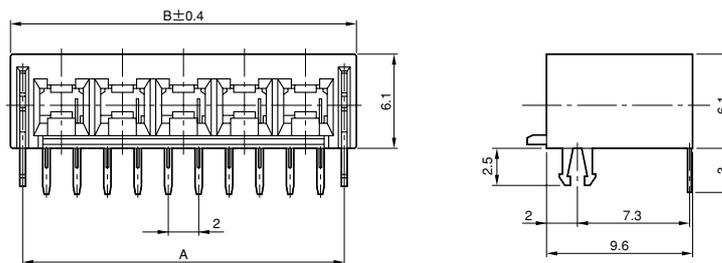
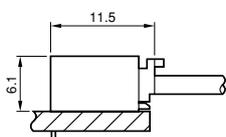
Interchangeable with PLUG (69 Page)

Dimensions in millimeters

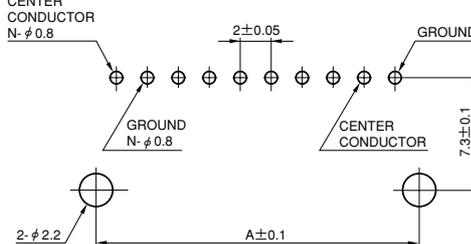
Right-angle



Dimension of Connector Combinations



PC BOARD LAYOUT • MOUNTING SIDE (REF.)
(PC BOARD THICKNESS : 1.6mm max.)



Part Number/Dimensions

| Number of Contact | Part Number | | A | B |
|-------------------|---------------|---------------|-------|------|
| | KD10 | KD20 | | |
| 1 | KD10-RRP-F-0 | KD20-RRP-F-0 | 5.15 | 6.7 |
| 3 | KD10-RRP3-F-0 | KD20-RRP3-F-0 | 13.15 | 14.7 |
| 5 | KD10-RRP5-F-0 | KD20-RRP5-F-0 | 21.15 | 22.7 |
| 8 | KD10-RRP8-F-0 | KD20-RRP8-F-0 | 33.15 | 34.7 |

Series Classification

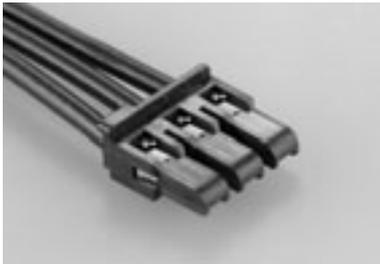
| Series Prefix | Gold Plating Thickness of Contact | Structure of Contact |
|---------------|-----------------------------------|--------------------------|
| KD10 | 0.1 μm min. | One contacting points |
| KD20 | 0.3 μm min. | Double contacting points |

PLUG

Intermutable with RECEPTACLE (68 Page)

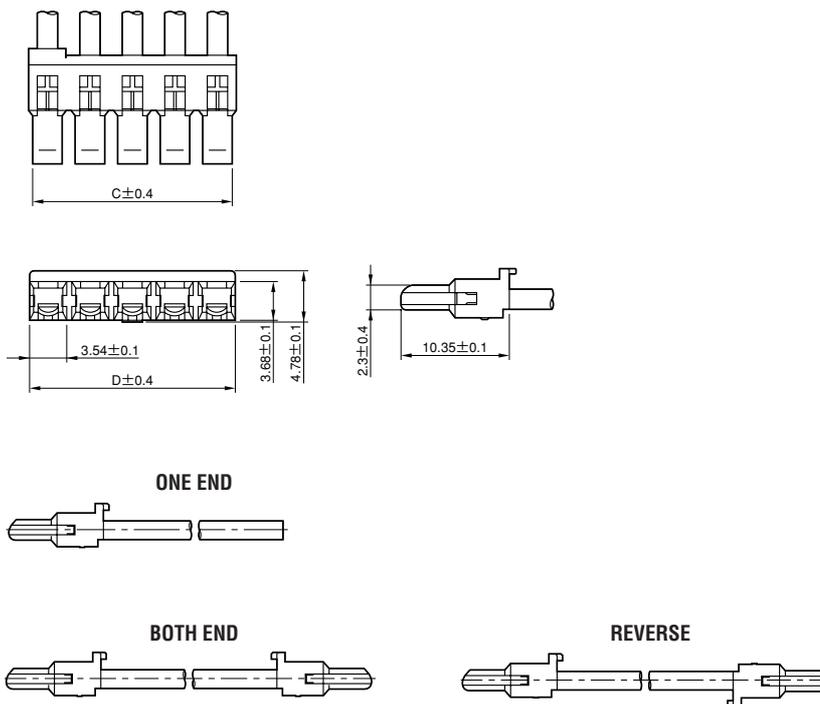
Dimensions in millimeters

Straight



(Note) The configuration is slightly different from 50 ohm version to 75 ohm version. For details, please consult us.

For Cable application type, harnessed connectors which satisfy your specification are supplied.



Part Number/Dimensions

| Cable Assembly Style | Number of Contact | Part Number | | | C | D |
|----------------------|-------------------|-----------------------|-----------------------|-----------------------|------|-------|
| | | 50 Ω | | 75 Ω | | |
| One End | 1 | KD10-CA***-PL-8DV | KD20-CA***-PL-8DV | KD10-CA***-PL-8CV | 2.8 | 3.54 |
| | 3 | KD10-CA***-PL3-8DV | KD20-CA***-PL3-8DV | KD10-CA***-PL3-8CV | 10.8 | 11.54 |
| | 5 | KD10-CA***-PL5-8DV | KD20-CA***-PL5-8DV | KD10-CA***-PL5-8CV | 18.8 | 19.54 |
| | 8 | KD10-CA***-PL8-8DV | KD20-CA***-PL8-8DV | KD10-CA***-PL8-8CV | 30.8 | 31.54 |
| Both End | 1 | KD10-CA***-2PL-8DV | KD20-CA***-2PL-8DV | KD10-CA***-2PL-8CV | 2.8 | 3.54 |
| | 3 | KD10-CA***-2PL3-8DV | KD20-CA***-2PL3-8DV | KD10-CA***-2PL3-8CV | 10.8 | 11.54 |
| | 5 | KD10-CA***-2PL5-8DV | KD20-CA***-2PL5-8DV | KD10-CA***-2PL5-8CV | 18.8 | 19.54 |
| | 8 | KD10-CA***-2PL8-8DV | KD20-CA***-2PL8-8DV | KD10-CA***-2PL8-8CV | 30.8 | 31.54 |
| Reverse | 1 | KD10-CA***-2PL-8DV-R | KD20-CA***-2PL-8DV-R | KD10-CA***-2PL-8CV-R | 2.8 | 3.54 |
| | 3 | KD10-CA***-2PL3-8DV-R | KD20-CA***-2PL3-8DV-R | KD10-CA***-2PL3-8CV-R | 10.8 | 11.54 |
| | 5 | KD10-CA***-2PL5-8DV-R | KD20-CA***-2PL5-8DV-R | KD10-CA***-2PL5-8CV-R | 18.8 | 19.54 |
| | 8 | KD10-CA***-2PL8-8DV-R | KD20-CA***-2PL8-8DV-R | KD10-CA***-2PL8-8CV-R | 30.8 | 31.54 |

(Note) ** : Add Cable length included connector length (10.35mm) .
60mm to 800mm...At intervals of 20mm Over 840mm...At intervals of 40mm

Series Classification

| Series Prefix | Gold Plating Thickness of Contact | Applicable Cables | |
|---------------|-----------------------------------|-------------------------------|------------------|
| | | 50 Ω | 75 Ω |
| KD10 | 0.1 μm min. | 0.8D-IEV(LF) | 0.8CV-E41447(LF) |
| KD20 | 0.3 μm min. | CO-6F-SB-CX50(Heat-resistant) | — |

Before placing an order

- ① The values specified in this catalogue are only for reference. The products and specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.
- ② Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.
- ③ The products presented in this catalogue are designed for the uses recommended below. We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:

- (i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.
- (ii) We may separately give you our support with a quality assurance program that you specify, when you think of a use such as:
Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:

Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.

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<http://www.jae-connector.com>

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